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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/747,613	12/30/2003	Vadim Yevgenyevich Banine	081468-0307456	2894	
909	7590 02/24	2/2006	EXAM	EXAMINER	
	Y WINTHROP S	RUTLEDGI	RUTLEDGE, DELLA J		
P.O. BOX 10 MCLEAN,			ART UNIT	PAPER NUMBER	
,	.,				
			DATE MAILED: 02/24/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/747,613	BANINE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		D. Rutledge	2851				
Period fo	The MAILING DATE of this communicator Reply	ion appears on the cover sh	eet with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicy of period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMP CFR 1.136(a). In no event, however, stion. by period will apply and will expire SIX (by statute, cause the application to be	MUNICATION. may a reply be timely filed (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed or	n .					
2a)□		This action is non-final.					
3)	Since this application is in condition for	allowance except for forma	I matters, prosecution as to the	e merits is			
	closed in accordance with the practice u	nder <i>Ex parte Quayle</i> , 193	5 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-7,9,10,13,15,17-19 and 21-25</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are w	ithdrawn from consideratio	n.				
5)🖂	Claim(s) <u>1-7,9,10</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>13,15,17-19 and 21-25</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction	and/or election requirement	nt.				
Applicati	on Papers						
9)	The specification is objected to by the Ex	aminer.					
·	The drawing(s) filed on 30 December 20		r b) objected to by the Exar	miner.			
,—	Applicant may not request that any objection		· ·				
	Replacement drawing sheet(s) including the			FR 1.121(d).			
11)	The oath or declaration is objected to by	· · · · · · · · · · · · · · · · · · ·	= : : •	• •			
Priority u	nder 35 U.S.C. § 119						
12) 🗌 .	Acknowledgment is made of a claim for f	oreign priority under 35 U.S	S.C. § 119(a)-(d) or (f).				
a)[☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority doc	uments have been received	d.				
•	2. Certified copies of the priority doc	uments have been received	in Application No				
	3. Copies of the certified copies of the	e priority documents have	been received in this National	Stage			
	application from the International I	Bureau (PCT Rule 17.2(a))					
* S	ee the attached detailed Office action for	a list of the certified copie	s not received.				
Attachment	(s)						
	e of References Cited (PTO-892)		rview Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO		er No(s)/Mail Date ce of Informal Patent Application (PT0	O-152)			
	No(s)/Mail Date <u>11/05; 01/06</u> .	6) Othe		-			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13, 15, 17 19, 21 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Ahmad (US Pub. No. 2003/0190012).

Ahmad has a debris mitigation system for a lithographic apparatus, see paragraphs 0005, 00322). Since the system is designed to be used in a lithographic apparatus, the illumination system, the support structure, the substrate support and the projection system are implicit. The debris mitigation system comprises a vacuum pump (4), electrodes (2, 26, 27), and a gas feed device (5), gas outlets (53). The mitigation system generates additional particles to deflect charged particles. The pump and electrodes cause the additional particles to be deflected in a direction different from the debris particles. Claims 13, 15, 18, 25

The mitigation system forms part of the radiation source (1) – claim 19

Multiple electron units may to used, these would generate a supersonic flow; using radio frequency would be a variant of the invention that those skilled in the art would know and which would be among the variants implied by paragraph 0049. The gas and

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electrons generate a plasma. See Fig. 3, related text and paragraph 0049 - claim 21-

25

Allowable Subject Matter

3. Claims 1 – 7, 9 and 10 are allowed.

4. The following is a statement of reasons for the indication of allowable subject

matter: The prior art does not suggest generating a additional particles using only the

electrodes.

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be

reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy

Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 2851

dr 2/21/06